

TRIF 480 EC

South Africa Reg. No: L 10179 Act/Wet No. 36 of/van 1947



A pre-plant, soil-incorporated emulsifiable concentrate herbicide.
Pre-emergence control of annual grasses and certain broadleaf weeds in crops as indicated and to control herbicide resistant annual ryegrass in wheat and barley.

ACTIVE INGREDIENT

Trifluralin (Dinitroanilines) 480 g/l

GROUP

3

HERBICIDE



WARNING

HAZARD STATEMENTS: May be harmful if swallowed | May be fatal if swallowed and enters airways | Causes mild skin irritation | Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS: Obtain special instruction before use | Do not handle until all safety precautions have been read and understood | Avoid breathing mist, vapours and spray | Avoid release into the environment.

Registration holder: Green Island Investments (Pty) Ltd.
Co. Reg. No.: 2013/043963/07
P.O. Box 1822, Heidelberg 1438, South Africa
Tel: 078 737 9236

24 HR EMERGENCY NUMBERS

Griffon Poison Information Centre: +27 82 446 8946
24 Hr Transport / Spill emergency no:
(Hazcall24) +27 86 044 4411 (Typhoon Plant Protection)

Distributed by: Typhoon Plant Protection (Pty) Ltd.
Co. Reg. No.: 1998/006156/07, C/O Farm Vlakfontein
Corner of the R23 Benoni Road & R550 Nigel Road
Brakpan District, Heidelberg 1438, Gauteng, South Africa
Tel: 078 737 9236

Net Volume:

ℓ

Expiry Date:
Batch No:
Date of Manufacture:
U.N. No. 1993

**Typhoon**
PLANT PROTECTION

READ LABEL IN DETAIL BEFORE OPENING THE CONTAINER. FOR FULL PARTICULARS, SEE ENCLOSED LEAFLET.
KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



WARNINGS:

HAZARD STATEMENTS:

- May be harmful if swallowed.
- May be fatal if swallowed and enters airways.
- Causes mild skin irritation.
- Causes serious eye damage.
- Harmful if inhaled.
- Harmful to aquatic life with long lasting effects.
- Very toxic to fish and aquatic organisms.
- **FLAMMABLE** – keep away from heat and open flames.
- Store in a cool, dry and well-ventilated place in the original container, tightly closed and secured.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions. The activity and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, incompatibility with other substances not indicated on the label and the occurrence of resistance of the weed against the remedy, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal, or for lack of performance of the remedy concerned due to failure by the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS:

PRECAUTIONARY STATEMENTS:

- Avoid release to the environment.
- Wear impervious rubber gloves and chemical safety goggles.
- **IF ON SKIN:** Wash with plenty of water and soap.
- Immediately call a **POISON CENTRE**.
- If skin irritation or rash occurs: Get medical advice.
- Collect spillage.
- Dispose of contents/container in accordance with local regulations.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean application equipment thoroughly after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Triple rinse empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the described manner.
- Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

Related Ingredients:

Substance name (IUPAC)	CAS – No.	Concentration % By weight
	EC-No.	
Trifluralin	1582-09-8	48%
Emulsifying agent A (ethylene oxide)e	75-21-8	5%
Emulsifying agent B (mixture of ethylene oxide nonyl phenol)	26027-38-3	6-8%
Solvent oil 150#	64741-65-7	75%

FIRST AID TREATMENT

- **Skin contact:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.
- **Eye contact:** Flush eyes with clean water for at least 15 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after five (5) minutes and continue rinsing.
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs. **Seek medical attention if you feel unwell after inhalation.**
- **Ingestion:** Seek medical attention or call a poison control centre for treatment advice. **Do not induce vomiting** unless instructed to do so by a poison control centre or doctor. **Do not** give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

NOTE TO PHYSICIAN

No specific antidote. Treat symptomatically and supportively. Keep patient under observation. Perform gastric lavage and catharsis if the victim is not unconscious. If less than 10 mg per kg body weight was ingested, administer 30 to 60 g activated charcoal in 150 to 300 ml water.

RESISTANCE WARNING:

For resistance management **TRIF480 EC** is a **Group code 3 herbicide**. Any weed population may contain individuals naturally resistant to **TRIF480 EC** and other **Group code 3 herbicides**. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **TRIF480 EC** or any other **Group code 3 herbicide**.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide group codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS:

It is very important that the following restrictions for use be considered to prevent crop damage:

Cotton:

- The use of **TRIF480 EC** may result in injury and even dying-off of cotton seedlings weakened by soil and seed-borne diseases. Apply a fungicide in the planting furrow and use treated seed.

Wheat & Barley:

- **Do not** apply **TRIF480 EC** in broadcast sown cereals.
- **Do not** use **TRIF480 EC** when the soil slopes to such an extent that treated soil is thrown on adjacent rows during planting.
- Apply **TRIF480 EC** only if planting afterwards is done with an Ausseeder (Ausplow), Voorplanter or a similar planter.
- The planting speed should be 5 to 6 km/h in order for the planter to throw soil over the area in between the rows, but not onto the adjacent row as this can cause damage to the crop.
- Very stony soils will adversely affect the efficacy of the treatment.
- Burn stubble before planting in situations where minimum tillage is practiced.
- Use **TRIF480 EC** in a programme with other herbicides.
- Apply glyphosate as a pre-plant herbicide to control any weeds that have emerged before planting.

Other crops:

- **TRIF480 EC** must not be applied on winter crops in the Western Cape.
- **Do not** use on groundnut cultivars Norden and Harts.
- Under certain conditions **TRIF480 EC** may damage follow-up crops, even though applied according to label recommendations.
- **Waiting period:** In addition to the crops mentioned below, the following crops may also be planted directly after a treated field has been harvested: castor oil, wheat, sugar cane, cucurbits, fruit trees, potatoes, cruciferae, beetroot, mint and celery.
- All other crops require a waiting period of at least 12 months, except in the case of grain sorghum where the waiting period is 18 months.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

COMPATIBILITY:

- **TRIF480 EC** is not recommended for use in tank mixtures with other products.

MIXING INSTRUCTIONS:

- Half-fill the spray tank with clean water.
- Measure out the required quantity of **TRIF480 EC** and add to the spray tank.
- Fill the spray tank with water to the required volume, while maintaining agitation to ensure thorough mixing.
- Maintain agitation during spraying.
- Use the prepared mixture immediately.
- **Do not** allow to stand overnight.

APPLICATION INSTRUCTIONS:

- **TRIF480 EC** is an emulsifiable concentrate that requires mixing with water and is applied as a spray. Use 200 to 400 litres of spray mixture per hectare.
- **TRIF480 EC** is a residual, soil-incorporated herbicide which controls a wide variety of weeds by destroying germinating weeds. Established weeds are not controlled.
- **TRIF480 EC** is decomposed by sunlight and should immediately (within 10 minutes) after application be incorporated to a depth of 50 to 100 mm (set off-set disc to a depth of 100 to 150 mm) to prevent loss in efficacy. If possible, spraying and incorporating should be carried out simultaneously.
- It is therefore recommended to mount the spray boom in front of the tractor pulling the planter. Spraying can however also take place separately directly ahead of the planter.
- It is important that large clods should be broken up and that **TRIF480 EC** is thoroughly mixed with the top soil.
- Shallow or inadequate incorporation can result in variable weed control.
- To ensure proper mixing with the soil, disc implements should be operated at sufficient speed (5 to 10 km/h) to achieve adequate mixing with the soil.
- **TRIF480 EC** will not leach out of the soil not even under high rainfall conditions or irrigation.
- **TRIF480 EC** can be applied at any time from 2 to 3 weeks before sowing to immediately prior to sowing.
- As established weeds are not controlled, lands should be free of weeds when **TRIF480 EC** is applied.

APPLICATION DOSAGE RATES:

CROP	SOIL TYPE & REMARKS	DOSAGE
Groundnuts:	0 – 10% clay	750 ml/ha
	11 – 20% clay	1 l/ha
Cotton, Dry beans, Kidney beans, Soya beans, Cowpeas, Sunflowers, Transplanted Tomatoes, Cabbage & Chillies:	0 – 15% clay	1 l/ha
	16 – 35% clay	1,5 l/ha
	36 – 55% clay	2 l/ha
Wheat & Barley:	For the control of more than 70% of herbicide resistant annual ryegrass (<i>Lolium</i> spp.)	1,5 l/ha

WEEDS CONTROLLED

GRASSES:

<i>Brachiaria eruciformis</i>	Sweet signal-grass
<i>Bromus unioloides</i>	Rescue grass
<i>Cenchrus incertus</i>	Mat sandbur
<i>Chloris virgata</i>	Feathertop Chloris
<i>Digitaria sanguinalis</i>	Crab fingergrass
<i>Dactyloctenium aegyptium</i>	Crow foot
<i>Echinochloa crus-galli</i>	Barnyard grass
<i>Echinochloa colona</i>	Jungle rice
<i>Eleusine indica subsp. africana</i>	Goose grass
<i>Eragrostis aspera</i>	Rough love grass
<i>Lolium spp.</i>	Ryegrass
<i>Poa annua</i>	Annual bluegrass
<i>Setaria verticillata</i>	Sticky bristle grass
<i>Setaria pallide-fusca</i>	Red bristle grass
<i>Sorghum halepense</i>	Johnson grass (from seed)
<i>Tragus racemosus</i>	Large carrotseed grass
<i>Urochloa panicoides</i>	Herringbone grass

BROADLEAF WEEDS:

<i>Amaranthus deflexus</i>	Pigweed
<i>Amaranthus hybridus</i>	Cape pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Chenopodium album</i>	White goosefoot
<i>Polygonum aviculare</i>	Prostrate knotweed
<i>Portulaca oleracea</i>	Purslane
<i>Stellaria media</i>	Chickweed
<i>Tribulus terrestris*</i>	Dubbeltjie

* Common dubbeltjie often germinates from a greater depth than the product is incorporated. These plants will not be controlled.

